

SIS2000+

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USOE Student Information System

# Control Master

**Overview and Use Instructions**

# Control Master Overview

In conjunction with the new SIS Web Gradebook, USOE District Computer Services has developed Control Master. In a nutshell, Control Master is a web-based application that centrally manages users and permissions for all SIS applications, including Web Gradebook, FoxPro, Reporting Services, Mark Reporting, Attendance, and Core Curriculum. These users, applications, and permissions are managed by a hierarchy of *groups*, *applications*, and *application groups*. Users are assigned to role-based groups, which in turn are assigned application and database permissions.

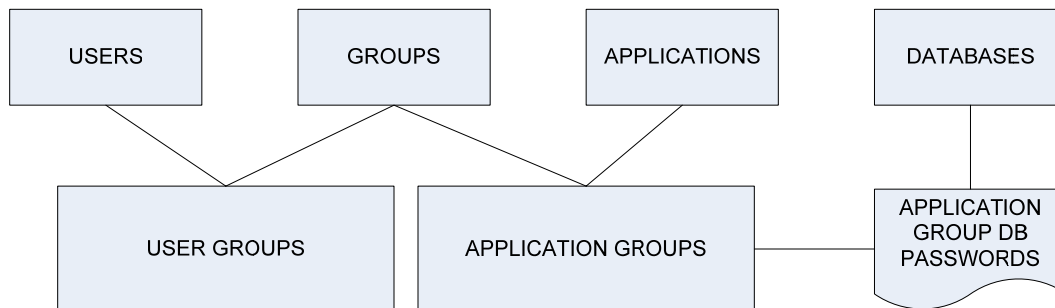
The purpose of Control Master is two-fold:

1. Improve overall security and security management.
2. Centralize user, group, and application management.

Control Master is installed in conjunction with the new web gradebook. A script will modify the current SIS database by adding certain tables that will allow Control Master to run and communicate with the database. Each district's database is given an administrator account to use to login and customize Control Master.

This documentation first covers the anatomy of Control Master, then practical use.

## Control Master Hierarchy



Each application runs against a database. Groups are permitted to run certain applications. Users are assigned to groups.

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# Control Master Applications and Application Groups

A Control Master *application* is any one of the SIS applications (SIS Main, Gradebook, Core Curriculum, Web Attendance, Reports). An *application group* is defined as the combination of an application and the user group running it. Applications must first be created, named, and tied to groups by selecting and using the arrow buttons between columns. (See Figure 1)

Control Master : User Setup : Edit Applications User: cm

Applications | User Setup | Application Permissions | Reports | Help

**Application:** Main SIS Application   
**Title:** Main SIS Application  ☒ **Web Application**  
**Description:** Main SIS Application  ☒ **Relative URL**  
**Path:** /Start/Default.aspx?ApplicationValidationGUID=%GUID%

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**Group Not In Application**

- Food Service
- Health
- Registrar
- Secretary
- Special Education
- Student
- Testing

**Group In Application**

- Administrator
- Counselor
- Specialists
- Teacher

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Figure 1

This creates an application group, which can now be tied to the database it will be running against. (See Figure 2)

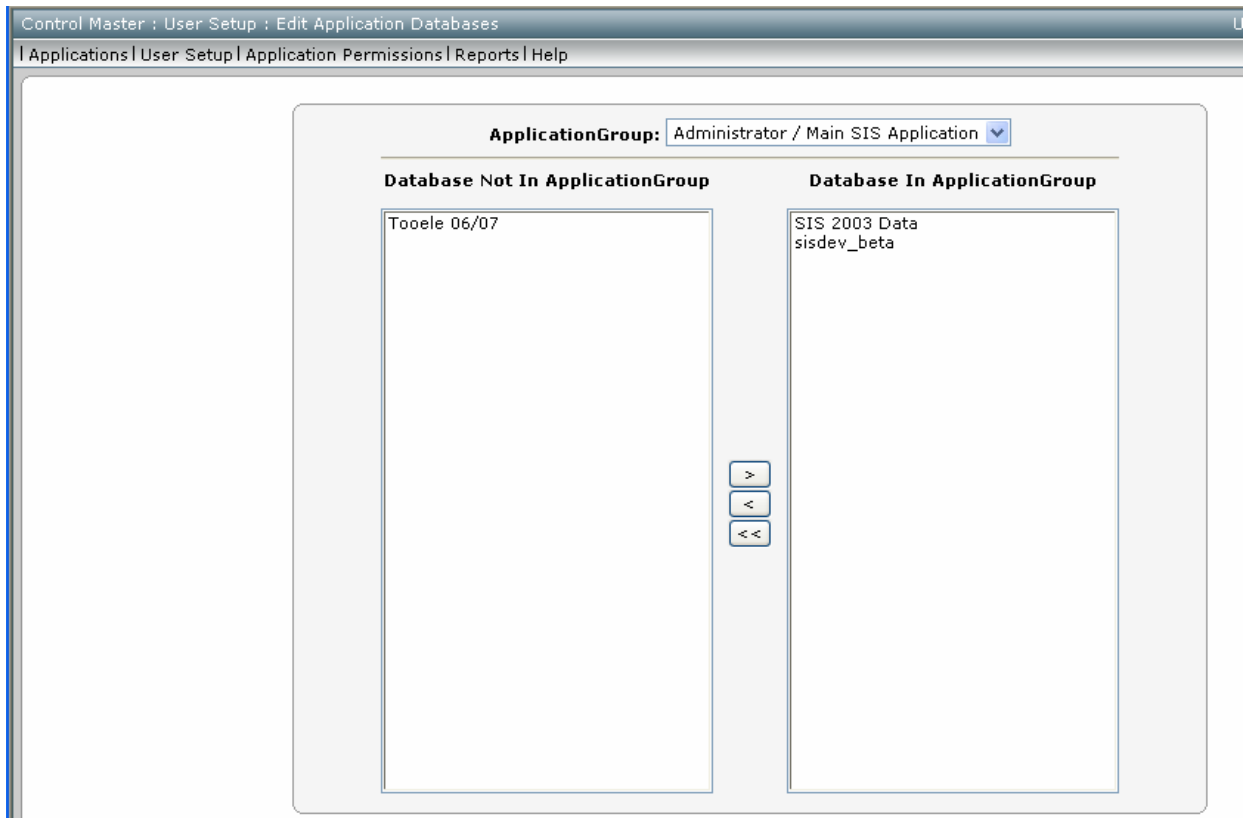


Figure 2

In the above example, the application group is Administrator/Main SIS Application. One or more databases may be tied to the application group using the arrow buttons.

## Security and Application Group Passwords

As different application groups will have different access needs to the database, the application group is tied to a database using a specific database user account. Several database accounts will be added to your SIS database that have varying access levels. When linking an application group to a database, this account information is required. The information for these accounts is in the applicationgroupdatabases table, which is added to your database at conversion.

# Control Master Users and Groups

SIS Main, which previously managed its own user accounts will now look to the Control Master for account information. Users created in the Foxpro SIS will be automatically created in Control Master and be added by default to role-based user groups (i.e., teacher, student, and contacts). Because all users are stored in the same Control Master user table, the issue of possible duplicate ID's (user names) is addressed by adding a letter to the beginning of the ID in the case of faculty and contacts (i.e., F119 [faculty], C347 [contact]). For convenience, student ID's will not require a letter prefix.

Users created in Foxpro will automatically be created in Control Master, where they may be further defined. (see figure 3)

The screenshot displays the 'Control Master : User Setup : Edit Users' window. The top navigation bar includes 'Applications | User Setup | Application Permissions | Reports | Help'. The main form contains the following fields and controls:

- User Name:** F100
- Password:** 00gs0000
- Name:** Jerry Seinfeld
- Email:** (empty)
- Show** button
- ☐ **Able to Impersonate**
- Save Changes** and **Reset Form** buttons

Below these fields are two columns for group assignment:

- User Not In Group:** A list box containing Administrator, Counselor, Food Service, Health, Registrar, Secretary, Special Education, Specialists, Student, and Testing.
- User In Group:** A list box containing Teacher.

Between the two list boxes are four arrow buttons: a single right arrow (>), a single left arrow (<), a double right arrow (>>), and a double left arrow (<<).

Figure 3

All fields may be changed, including the User Name and Password. Users are then added to user groups using the arrow buttons between columns. A user can be added to multiple groups, depending on that user's needs. Users are also able to impersonate other users. For example, previously in the web gradebook, administrators needed to query the password for a teacher they were helping and log in as that teacher. With this new feature, administrators can log in as themselves and simply impersonate the user they need to help, thus eliminating the need to remember a teacher ID and ask or query a password.

Users can also be created directly in Control Master. Several default groups have been created with default permissions, but districts can create their own groups as they desire.

## Application Permissions

Application permissions can be assigned by individual user, group, and application (see figures 4-4.2)

Edit Users:

Control Master : Application Permissions : Edit Users

Applications | User Setup | Application Permissions | Reports | Help

Application: Gradebook Object: Gradebook

User: F100 Show

Object Description:

Denied	* Inherits	Granted
		Teacher *

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Figure 4

## Edit Groups:

Control Master : Application Permissions : Edit Groups

Applications | User Setup | Application Permissions | Reports | Help

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**Application:** Attendance

**Object:** Attendance

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**Object Description:** Teacher Attendance

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Denied	Granted
Counselor Food Service Health Registrar Secretary Special Education Student Testing	Administrator Specialists Teacher

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Figure 4.1

## Group Permissions:

Control Master : Application Permissions : Edit Group Permissions

Applications | User Setup | Application Permissions | Reports | Help

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Application: Gradebook

Group: Teacher

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Group Description: Teacher

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Denied	Granted
	<div>Gradebook</div> <div>-- Class</div> <div>---- Student Comments</div> <div>---- Publish Grades</div> <div>---- Review Published Grades</div> <div>---- Show / Hide Inactive</div> <div>---- Define Class in Gradebook</div> <div>-- Academic</div> <div>---- Score Entry</div> <div>---- Student Scores</div> <div>---- Define Tasks</div> <div>---- Change Subject Assignment</div> <div>---- Define Subject Template</div> <div>-- Gradebook Help</div> <div>-- Citizenship</div> <div>---- Citizenship by Item</div> <div>---- Citizenship Log</div> <div>---- Define Citizenship Items</div> <div>---- Define Citizenship</div>

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Figure 4.2



# Logging Into Control Master

The new web applications and Control Master are accessed from the same portal. When users log into this portal, they are logged into any application that they have permissions to, including Control Master. (See Figure 5)

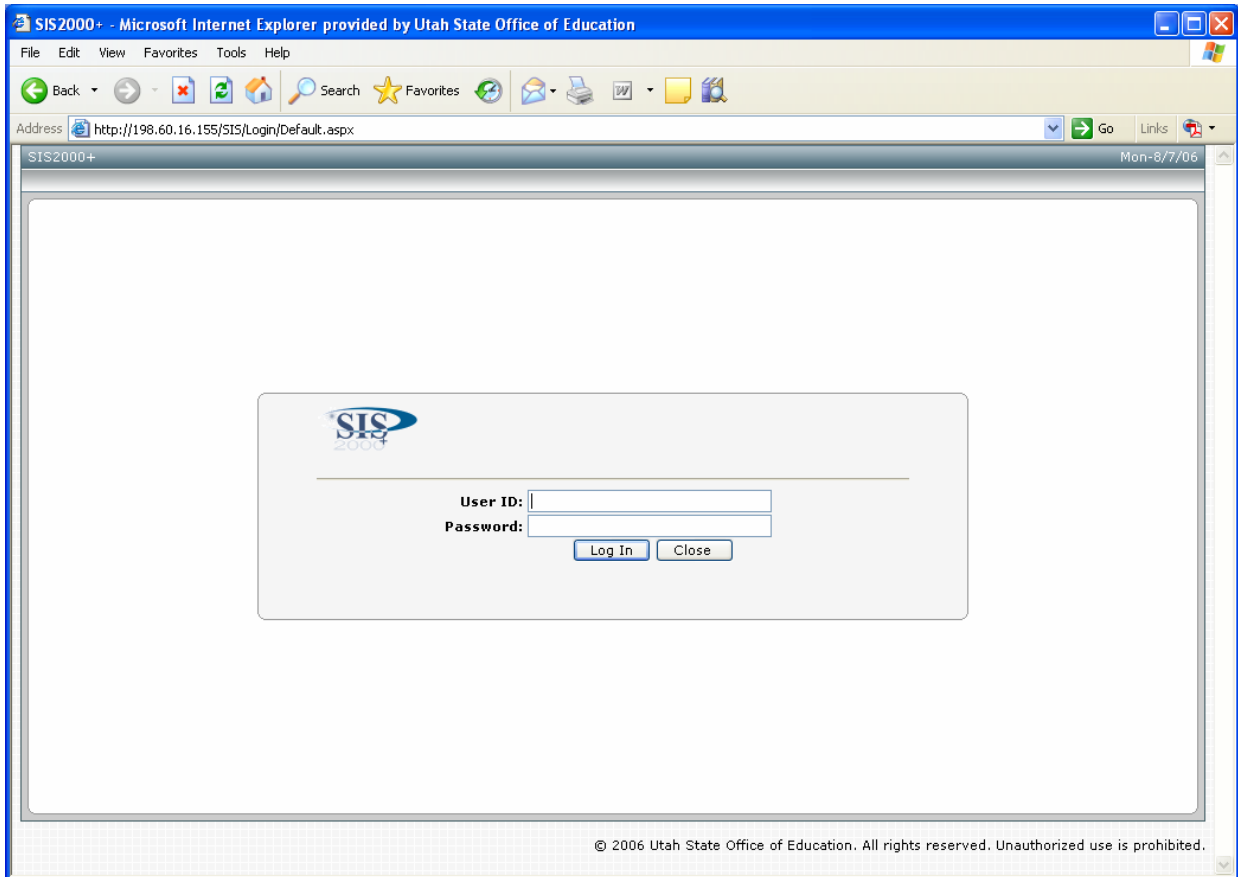


Figure 5

As part of the login process, users with permissions to multiple applications will need to specify which one they want to run. Users having administrative access (this will likely be just the district SIS specialist) also can have the option to impersonate other users (see Figure 6). The purpose of impersonation is to eliminate the need for administrators to query ID's and passwords in order to log in as that person. SIS specialists can now log in as themselves and impersonate the person they need to help.

**Important Note:** Impersonation rights should be limited strictly to trusted district personnel who will need it to help troubleshoot SIS issues. Setting the impersonation flag for a user gives them the right to impersonate any user in the database, including the administrator account.

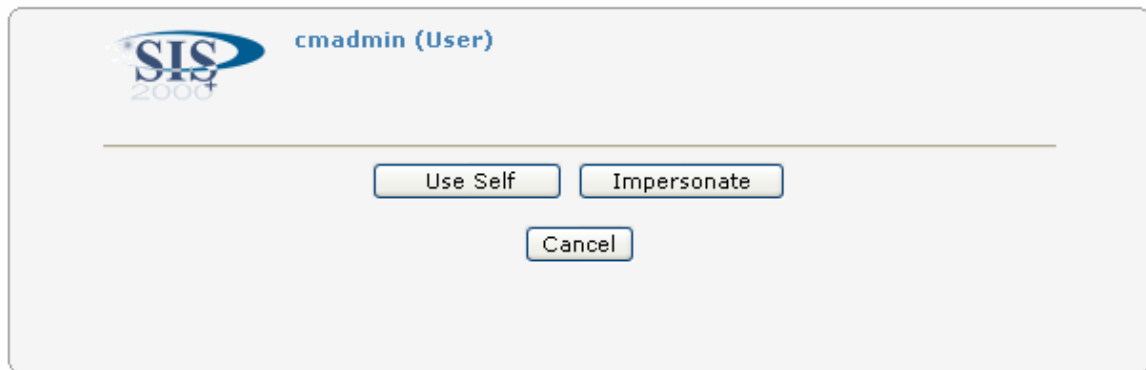
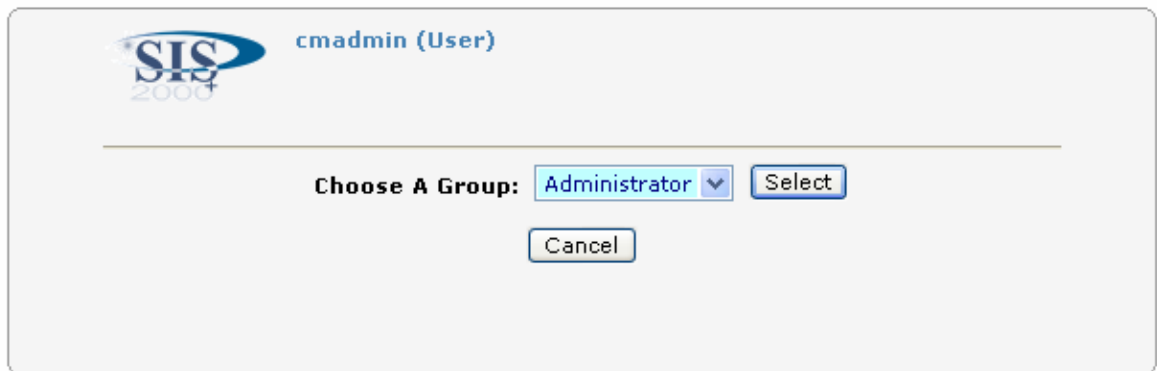


Figure 6

Users assigned to multiple groups will then select the group they would like to log in under, depending on what they would like to do. (See Figure 7)



The screenshot shows a login dialog box for SIS 2000+. At the top left is the SIS 2000+ logo. To its right, the text "cmadmin (User)" is displayed. A horizontal line separates the header from the main content area. Below the line, the text "Choose A Group:" is followed by a dropdown menu showing "Administrator" with a downward arrow. To the right of the dropdown is a "Select" button. Below these elements is a "Cancel" button.

Figure 7

Users in groups assigned to multiple applications will then choose which application they would like to run. (See Figure 8)

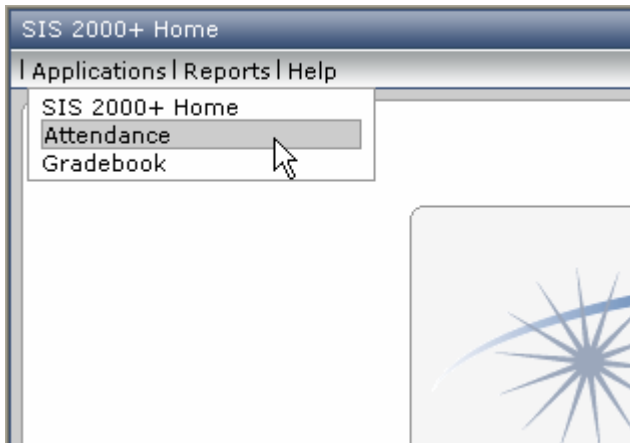


Figure 8

## Control Master Setup

Once your web server has been configured to run the Gradebook package, log into Control Master using the admin user account that has been created for you. You can now customize Control Master for your district by creating and modifying users, groups, and applications. Since default applications, application groups, and user groups will already be set up by default, customization should be minimal. Using the figures above as reference, all Control Master objects may be created or modified according to the district's needs.